Secure, accessible cloud client computing has arrived.

DELL Wyse

# Dell Wyse X class mobile thin clients.

Dell Wyse X class:
All you need to know. Here:

# **Introducing** the Dell Wyse X class

**Now you can get all of the security you crave – with all the access, flexibility and performance you need. Wherever you choose to work.**

Dell Wyse X class comes in two neat profiles. Both of them ideal for today's busy and increasingly demanding mobile workforce: There's the Dell Wyse X class c family with an 11" LED backlit display. It features a choice of Dell Wyse enhanced SUSE Linux, Windows Embedded Standard 2009 & 7 operating systems and Dell Wyse WSM for provisioned environments.

And the new next-generation Dell Wyse X class m family mobile thin client powerhouse. It features Dell Wyse enhanced SUSE Linux, Windows Embedded Standard 2009 and Windows Embedded Standard 7, a crisp 14" LED backlit display and a dual core high performance and graphics-combined CPU – delivering excellent HD multimedia capabilities, as well as advanced SuperSpeed USB 3.0 connectivity. Altogether the Dell Wyse X class puts secure, high performance, mobile cloud computing into the hands of those users who need it most.

## Here's the full range:

### Dell Wyse X90cw

Small form factor, mobile thin client with Microsoft Windows Embedded Standard 2009.

### Dell Wyse X90c7

Harnesses the rich user experience of new Microsoft Windows Embedded Standard 7 in a compact mobile form factor.

Microsoft RemoteFX Enabled

### Dell Wyse X50m

Highest performing dual core mobile client with all the security, flexibility, and market-leading usability of Dell Wyse enhanced SUSE Linux Enterprise.

### Dell Wyse X90mw

New 14" next generation dual core high-performance mobile thin client featuring Windows Embedded Standard 2009.

### Dell Wyse X90m7

New 14" next generation dual core high-performance mobile thin client featuring Windows Embedded Standard 7.

Microsoft RemoteFX Enabled

### Dell Wyse X00m

Highest-performing dual core mobile cloud PC for Dell Wyse WSM.

# **Features** Dell Wyse X class

Dell Wyse X class mobile thin clients feature all the benefits of the Dell cloud client computing range - including the absence of hard drives. A vital benefit for mobile workers who regularly work with sensitive data in insecure environments. Equipped with a Dell Wyse X class they remain both productive and mobile – with all their data safely stored and accessed from secure virtual desktop servers – eliminating the risk of data loss from stolen or mislaid laptops.

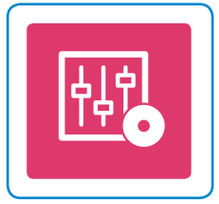
Performance

X class c family connectivity

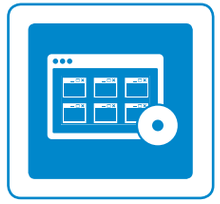
X class m family connectivity

Green

Management

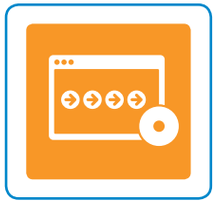


Cloud PC provisioning



User experience optimization

User experience acceleration



Dell Wyse enhanced SUSE Linux

Microsoft Windows Embedded Standard 2009

Microsoft Windows Embedded Standard 7

Take a tour of the Dell Wyse X class

# Performance

## High performance and security on the move.

The Dell Wyse X class mobile cloud clients feature high-performance energy conserving processors: The Intel Atom Z520 in the Dell Wyse X class c family and AMD G-Series T-56N dual core processor in the X class m family, giving your mobile users all the processing power and flexibility they need including rich multimedia playback.

Both feature bright LED backlit displays delivering excellent on-screen performance for graphics applications and multimedia presentations.

### No hard drives. No worries.

Their hard drive-free design contributes to a far longer lifespan than other comparative laptops. And of course no hard drive means no data whatsoever is lost or compromised if a Dell Wyse X class is stolen or mislaid.

Finally, everything's encased in slim, robust designs ideal for today's hard working and pressurized mobile workers.

## Dell Wyse X class c family

### Intel Atom Z520 1.33GHz processor

Intel's smallest and lowest power processor to date, the Intel® Atom™ processor has been specifically designed for the new wave of compact, lightweight, high performance mobile cloud clients like the Dell Wyse X class c family.

## Dell Wyse X class m family

### AMD G-Series T-56N Dual Core processor

The AMD Embedded G-Series platform is the world's first low power processor and advanced GPU that's integrated into a single embedded Accelerated Processing Unit (APU).

Continue tour

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# Connectivity

## Dell Wyse X90cw and X90c7 mobile thin clients.

Built-in 1.3 mega pixel camera and microphone

11" LED backlit display

### Well connected

Integrated wireless 802.11 b/g/n

One VGA-type video output

Two USB 2.0 ports

Audio In: 1/8-inch mini jack, 8 bit stereo microphone

Audio Out: 1/8-inch mini jack, full 16 bit stereo

Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage

One USB 2.0 port

10/100 Base-T Ethernet port

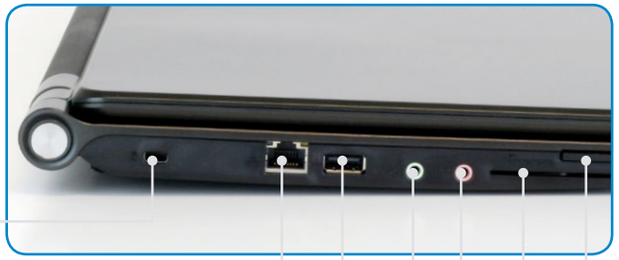
Kensington Lock Slot

Continue tour

# **Connectivity** Dell Wyse X class m family

## Dell Wyse X50m, X90mw, X90m7 mobile thin clients and X00m mobile cloud PC

### Well connected


Built-in WiFi 802.11 a/b/g/n
Kensington lock slot
Gigabit Ethernet port
One USB 2.0 port
Audio In: 1/8-inch mini jack, 8 bit stereo microphone
Audio Out: 1/8-inch mini jack, 16 bit stereo
Media card reader
Smart card reader (factory option)

Continue tour

# Energy conscientious

## That's Dell Wyse EarthSmart computing

Through our EarthSmart computing initiative we are committed to helping organizations implement a greener computing strategy – one that delivers a more efficient and productive computing experience for your users with a positive effect on energy wastage, heat and carbon emissions.

### Energy efficient

The Dell Wyse Xenith family packs a considerable punch with their green credentials. From reduced manufacturing impact and end-of-life recycling waste, to as little as 7 watts energy consumption, deploying Dell Wyse Xenith zero clients will enable your organization to achieve a lighter carbon footprint.

## More information

Download carbon calculators, fact sheets and white papers from here:
**www.wyse.com/green**

Dell Wyse X class c family

Dell Wyse X class m family

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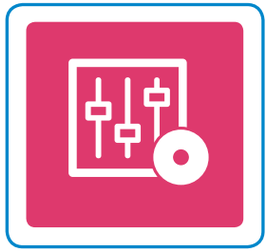
# **Thin client management** Dell Wyse Device Manager

Dell Wyse Device Manager (WDM) addresses key management requirements for deploying powerful thin clients. With its centralized management and administration WDM helps IT departments deliver effective remote thin client support while minimizing end user downtime.

**Security is assured with HTTPS based imaging, updates and downloads.**

## WDM delivers organization-wide benefits:

| | |
|---|---|
| **Operations** | Centralized management.<br>Collect and organize asset information. |
| **Administration** | Health status reports.<br>Automated client settings.<br>Update client firmware and add applications. |
| **End User IT Costs** | Easy, effective remote support.<br>Create custom scripts and packages. |
| **Minimize downtime** | Restart or reset thin clients in less than a minute.<br>Enforce policies. Minimize user errors. |



## At a glance features

- **Security**
  HTTPS based imaging / updates
  Fully encrypted network traffic
  Delegated admin access (MS AD) support
- **No-Hassle deployment**
  Complete device imaging / patching / updates
  Bandwidth throttling for efficiency / reliability
  Software updates and add-ons
- **Device administration and monitoring**
  Device health status / reporting
  Remote shadowing / control
  Default device configuration
- **Reduce end user IT costs**
  Reduce energy consumption with scheduled up/down times
- **Scalability**
  Distributed architecture
  Microsoft SQL database support
  Multiple remote repository support
- **Complete asset visibility**
  Automated device discovery
  Detailed hardware asset information
  Installed software asset information

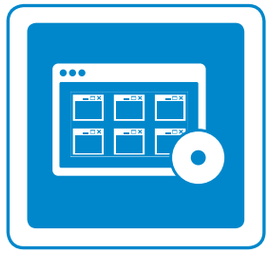
Continue tour

# Cloud PC Provisioning Dell Wyse WSM

## Enterprise computing from the cloud is here. Whatever you want. Wherever you need it.

That's the thinking behind Dell Wyse WSM. It's a dynamic on-demand streamed computing environment where everyone gets their preferred operating systems, applications, user data and documents: Wherever they are and whenever they need them.

And Dell Wyse WSM goes beyond the traditional VDI model too – with full support for mobile workers and remote branch offices. Dell Wyse WSM effectively changes the rules on what's possible and opens up the benefits of high performance desktops to enterprise users: Wherever they are.



## Better than a PC could ever be

With Dell Wyse WSM users – such as those in the financial or retail industries – are given a fresh computer with their chosen PC operating system, applications and files all preloaded and ready-to-go, every time they sit down and start-up their powerful desktop devices known as Dell Wyse 'cloud PCs'.

Dell Wyse cloud PCs feature powerful processors that enable them to run full PC operating systems and applications locally, while keeping their documents and data secure on central Dell Wyse WSM servers. Enabling existing PC users to continue to use all their familiar operating systems and applications seamlessly - but with greater reliability and better overall performance than a full PC - with the result that many users don't even realize they're using a cloud PC.

And - better still, Dell Wyse WSM features a highly secure, robust and resilient network design that's ideal for remote offices and mission critical deployments such as the defense industry.

**With everything managed, updated, configured remotely and securely, Dell Wyse WSM is everything a PC promises. Minus the headaches.**

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# User experience optimization Dell Wyse TCX Suite

with Dell Wyse Collaborative Processing Architecture

## Dell Wyse TCX delivers an optimal user experience in one software suite.

The TCX suite enriches the user experience by removing the limitations previously associated with thin clients. It enhances, not replaces, key protocols like ICA/HDX and RDP by adding key features to help make each more valuable.

### Multi-display

Ensures application windows and dialog boxes are multi-monitor aware when using more than one monitor.

### USB Virtualization

Enables plug and play peripheral support for virtual desktop environments.

- Redirect and use local USB devices in virtual desktops.
- Deploy virtual desktops to knowledge workers with special device access needs.
- Enable a broad set of USB peripherals including webcams and headsets.

### Multimedia acceleration

Streamlines the delivery of video and audio content to the local client for a rich user experience within a thin client computing architecture.

- Accelerates Mpeg1, Mpeg2, WMV, Mpeg4 Part 2, AC3, AAC, MP3, WAV, WMA media types.
- Collaborative Processing Architecture enhances server scalability, and network utilization by off-loading multimedia rendering to the client.

### Flash redirection

Flash redirection helps thin client users to experience excellent Flash video performance. Flash redirection allows web-based Flash video content to be fetched directly by the Dell Wyse thin client from the source where it is played locally. Users get outstanding Flash video performance while the VDI host system runs more efficiently.

### Bi-directional sound

Enables bi-directional audio in virtual desktop environments, enabling solutions such as VOIP, digital dictation or voice recognition to be deployed.

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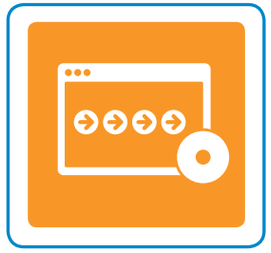
# Virtualization software Dell Wyse Virtual Desktop Accelerator

## Removing the barriers of network latency.

Dell Wyse Virtual Desktop Accelerator (VDA) enables virtualized desktop and thin computing environments to be deployed to areas where network latency has, to date, presented operational barriers. Now, with VDA, more users can receive the full benefits of Dell cloud client computing – with outstanding PC experience over virtualized desktops.

VDA is a software-only solution for Dell Wyse thin clients and supported PCs that delivers exceptional user experience for the allocated network bandwidth by neutralizing the effects of network latency and packet loss. Making 'thin' suitable for more remote-site, branch, or field-based users.

VDA works with instead of replacing existing RDP and ICA protocols, and is designed to offer significant acceleration over certain capacity-constrained WAN links.



## At a glance features

- Software-only acceleration of virtual desktops and applications
- Accelerates existing Citrix ICA and Microsoft RDP protocols
- Works on WANs and 'fat, long pipes'
- Accelerates connections to Citrix XenApp, Citrix XenDesktop, VMware View and Microsoft Terminal Server and Microsoft Hyper-V VDI
- Enhances Dell Wyse TCX software suite functionality across wide-area networks
- Enables Dell Wyse Collaborative Processing Architecture across wide-area networks
- Administrator console provides control of maximum bandwidth per connection
- Leverages built-in security of underlying protocols (128-bit encryption for RDP and ICA).

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# Operating Systems Dell Wyse enhanced SUSE Linux

**Dell Wyse enhanced SUSE Linux Enterprise is a simple, secure, and easy to manage platform designed for customers looking for flexibility and support of the latest protocols (ICA, PCoIP, RDP, etc) without the need for a Windows-based thin client.**

### Simple "Hands-Off" Management.

Deploying, managing, and updating Dell Wyse enhanced SUSE Linux is easy. Utilizing Dell Wyse's established automatic update and configuration approach, management tasks can be handled centrally and easily without any management software required.

Updating 1 or 1,000 thin clients is as simple as dragging and dropping a file into a folder. For customers that desire a little more hands-on approach (such as asset tracking, reporting, etc) then integration with Dell Wyse Device Manager is built-in.

### Security.

Dell Wyse enhanced SUSE Linux is designed with security in mind. IT Managers are able to provide a locked-down experience, smartcard login to virtual environments, VPN connectivity, and leverage a read-only file system that helps protect against data loss, theft and virus attacks.

## Enterprise-quality Linux optimized by Dell Wyse

Dell Wyse enhanced SUSE Linux is the only enterprise-quality Linux platform optimized for thin computing, created by combining the security and flexibility of SUSE Linux with Dell Wyse's cloud client computing leadership and innovation in user experience and simplified management. Additionally, SUSE Linux Enterprise is the only Linux platform to protect customers from potential IP infringement suits as it is jointly indemnified by SUSE Linux and Microsoft.

### Flexible, Multi-Protocol Support.

Being built from a standard enterprise-quality Linux distribution means the Dell Wyse enhanced SUSE Linux supports a wide range of protocols and infrastructures straight-out-of-the-box including Citrix, Microsoft, VMware and Ericom PowerTerm InterConnect Terminal Emulation – allowing you to mix-and-match connections from a single image.

### That's Dell Wyse enhanced SUSE Linux.

The only enterprise-quality Linux platform optimized by Dell Wyse for thin client computing.

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# Operating Systems Microsoft Windows Embedded Standard 2009

## Running Windows Embedded Standard on Dell Wyse thin clients offers IT departments the ability to deploy fully functional desktop clients with better manageability and significantly lower total cost of ownership than personal computers.

Dell Wyse Windows Embedded Standard 2009-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers, with the inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.

Full support is provided for RDP 7.0, Citrix ICA 12.x, VMware View 4.6, Ericom PowerTerm WebConnect, Ericom PowerTerm InterConnect Terminal Emulation and Internet Explorer 8. In addition, all Dell Wyse Windows Embedded Standard 2009 thin clients include support of Windows Embedded Device Manager, allowing the device to be managed by Microsoft's central management system for Windows-based devices, System Center Configuration Manager*.

**Secure write-protected thin client desktops**

This robust and flexible operating system is further enhanced by the Dell Wyse file-based Write Filter that enables you to protect the files, folder and/or entire volumes from accidental changes or user customization. On rebooting, the thin client simply returns to its original state thus preventing any possible damaging modification either from users or malware.

## Dell Wyse customized image support

Dell Wyse technicians are prepared to help you customize Windows Embedded Standard 2009 to your exact requirements in order to create custom-built images for subsequent enterprise-wide deployment, management and update through Dell Wyse Device Manager.

**Contact your Dell Wyse Partner for further details**

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# Operating Systems Microsoft Windows Embedded Standard 7

## New Windows Embedded Standard 7 delivers a wealth of enhanced deployment, user experience and management benefits to Dell Wyse desktops, mobiles and thin clients deployed across an organization's virtualized network.

### Rich user experience

Wherever they are – deskbound or mobile – with Microsoft Windows Embedded Standard 7 your users can benefit from the rich user experience of the Aero interface and the power, familiarity and reliability of the Windows 7 operating system in a highly customizable and componentized form.

Full support is provided for Remote Desktop Protocol (RDP) 7.1 with RemoteFX technology to provide seamless connectivity to Windows Server 2008 R2 and virtual desktop infrastructure scenarios. The Dell Wyse-enhanced Windows Embedded Standard 7 platforms include additional features supporting the latest Citrix Online Plug-in and VMware View 4.6 to fit the needs of your most sophisticated users and making it an optimum OS for organizations wanting broad support for cloud computing and desktop virtualization. Citrix Online Plug-in provides the HDX user experience and View 4.6 provides localization and Virtual Printing.

The platform also features additional Windows technology innovations to drive rich, immersive user experiences, including Internet Explorer 8. There's full support and built-in flexibility too, to add and support a host of desktop peripherals with permission from the IT administrator. And with 64-bit WES 7p support on the X90m7, VMware View users can enjoy "local mode", where they can disconnect from the VDI host and take their View sessions with them and then re-sync when re-connecting later.

In addition, all Dell Wyse Windows Embedded Standard 7 thin clients include support of Windows Embedded Device Manager, allowing the device to be managed by Microsoft's central management system for Windows-based devices, System Center Configuration Manager.

## Easy to manage and deploy

Now, with Windows Embedded Standard 7, deploying 32-bit capable thin clients is easier and more manageable than ever before and reflects the direct working relationship between Dell Wyse and Microsoft. The support for Domain Join and group policies through Active Directory, help with management and integration of thin clients into existing desktop management infrastructures.

Dell Wyse Configuration Manager (WCM) offers unprecedented simplicity to the management of virtual desktops by allowing IT departments to auto-configure thin clients running Dell Wyse-enhanced Windows Embedded Standard. By automating the deployment of Windows Embedded Standard thin clients throughout a private cloud WCM offers multiple benefits to organizations: reducing the need to do imaging, deploying custom images and fast configuration updates. Client devices are updated with the latest configuration settings for VDI connections (RDP, Citrix, VMware View), device settings and OS configuration automatically when devices startup.

Dell Wyse Device Manager (WDM) addresses key management requirements. With its centralized management and administration, WDM helps IT departments deliver effective remote thin client support while minimizing end user downtime. In addition, the Dell Wyse USB Firmware Tool allows IT and Customer Service staff to quickly and easily image the devices directly.

### Enterprise-wide consistency

Windows Embedded Standard 7 and Dell Wyse provide the ideal, cost effective opportunity to deploy a consistent, high performance operating system across Dell Wyse cloud clients.

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# **Technical** Dell Wyse X class

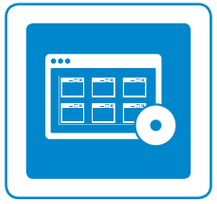
The Dell Wyse X class family features Dell Wyse enhanced SUSE Linux Enterprise, Windows Embedded Standard 2009, Windows Embedded Standard 7 operating systems and Dell Wyse WSM provisioning software.

## Learn more. Simply click the icons below.

Dell Wyse X class specifications c family

Dell Wyse X class specifications m family

Cloud PC provisioning



Dell Wyse enhanced SUSE Linux

Microsoft Windows Embedded Standard 2009

Microsoft Windows Embedded Standard 7

# Hardware specifications

**X class c family:** Dell Wyse X90cw, X90c7 mobile thin clients.

| | |
|---|---|
| **Processors** | Intel Atom Z520 1.33GHz |
| **Memory** | X90cw: Windows Embedded Standard 2009: 2GB Flash / 1GB RAM and up to 4GB Flash / 2GB RAM<br>X90c7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM |
| **I/O peripheral support** | One VGA port 15-pin D-sub for external monitor<br>Three USB 2.0 ports<br>Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage<br>One Mic In / One Line Out<br>Built-in 1.3 mega pixel camera and microphone<br>3G capable |
| **Keyboard** | US, US international, UK, French, German |
| **Pointing Device** | Touchpad. |
| **Networking** | 10/100Base-T Fast Ethernet (RJ-45)<br>Integrated wireless 802.11 b/g/n |
| **Factory options** | Bluetooth for connection to selected mobile phones |
| **Display** | 11.6" WXGA 1366 x 768 LED backlight |
| **Audio** | Output: 1/8-inch mini jack, full 16 bit stereo<br>Input: 1/8-inch mini jack, 8 bit microphone |
| **Speakers** | Two internal stereo speakers |
| **Physical characteristics** | Width: 11.42 inches (290mm)<br>Depth: 8.23 inches (209mm)<br>Height: 1.39-1.25 inches (26.4~31.7mm) |

| | |
|---|---|
| **Weight** | 3.2 lbs. (1.45kg) with battery |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Keyboard and mouse** | Keyboard / touchpad |
| **Keyboard layouts supplied** | French, German, Italian, Norwegian, Spanish, Swedish, UK, US, US international |
| **Battery** | 6-cell Li-Ion battery (5200mAh)<br>Up to 8 hours autonomy |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz.<br>Energy Star V5.0 compliant power supply<br>Average power usage under 15 Watts<br>19V/65W AC adapter |
| **Temperature Range** | 50° to 104° F (10° to 40° C) |
| **Humidity** | 20% to 80% condensing<br>10% to 95% non-condensing |
| **Safety Certifications** | UL/IEC 60950-1, TUV<br>EMC: CE (EN 55022, EN 55024), FCC 15B)<br>FCC ( Part 15C), CE (EN 300 328, EN 301 489),<br>Richtlinie 1999/5/EC<br>RoHS, WEEE |
| **Warranty** | One-year limited warranty, 6 months battery warranty<br>Visit our web site for Dell WyseChoice extensions and upgrades |

# Hardware specifications

**X class m family:** Dell Wyse X50m, X90mw, X90m7 mobile thin clients and X00m mobile cloud PC.

| | |
|---|---|
| **Processors** | Dual core AMD G-T56N 1.65 GHz processor with AMD Radeon™ HD 6320 graphics |
| **Memory** | X50m: Dell Wyse enhanced SUSE Linux: 2GB Flash / 2GB RAM DDR3 1333MHz<br>X90mw: Windows Embedded Standard 2009: 2GB Flash / 2GB RAM DDR3 1333MHz<br>X90m7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM DDR3 1333MHz<br>X00m for WSM: 128GB SSD / 2GB RAM DDR3 1333MHz |
| **I/O peripheral support** | One VGA port<br>One DisplayPort<br>One USB 2.0 port and two USB 3.0 ports<br>Media card reader slot for additional storage<br>One Mic In / One Line Out<br>Built-in 1.3 mega pixel camera and microphone<br>ExpressCard slot (factory option)<br>3G/4G capable (PCIe slot available)<br>Smart card reader (Factory installed configuration option) |
| **Networking** | 10/100/1000 Mbps Gigabit Ethernet<br>Integrated wireless 802.11 a/b/g/n dual band (2.4 Ghz and 5Ghz) |
| **Display** | 14" WXGA 1366 x 768 LED backlight |
| **Audio** | Output: 1/8-inch mini jack, full 16 bit stereo, digital audio out<br>Input: 1/8-inch mini jack, 8 bit microphone |
| **Speakers** | Two internal stereo speakers |

| | |
|---|---|
| **Physical characteristics** | Width: 13.5 inches (341.6mm)<br>Depth: 9.32 inches (239.2mm)<br>Height: 1.14 inches (28.9-35.5mm) |
| **Weight** | 4.0lbs (1.83kg) |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Keyboard and mouse** | Keyboard / touchpad |
| **Keyboard layouts supplied** | US, US international, UK, French, German |
| **Battery** | 6-cell Li-Ion battery (5200mAh) |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz.<br>Energy Star V5.0 compliant power supply<br>19V/65W AC adapter |
| **Temperature Range** | 50° to 104° F (10° to 40° C) |
| **Humidity** | 20% to 80% condensing<br>10% to 95% non-condensing |
| **Safety Certifications** | UL/IEC 60950-1, TUV<br>EMC: CE (EN 55022, EN 55024), FCC 15B)<br>FCC ( Part 15C), CE (EN 300 328, EN 301 489),<br>Richtlinie 1999/5/EC<br>RoHS, WEEE |
| **Warranty** | One-year limited warranty, 6 months battery warranty<br>Visit our web site for Dell WyseChoice extensions and upgrades |

# Software specifications Dell Wyse WSM

| | |
|---|---|
| **Device hardware requirements** | Windows XP Pro<br>- Minimum processor speed 800 MHz (1GHz or higher is recommended)<br>- Mind. 256 MB (1GB or higher is recommended)<br>Vista and Windows 7<br>- Minimum processor speed 1 GHz (1.5GHz or higher is recommended)<br>- Mind. 1 GB (2GB or higher is recommended)<br>- Flash size/local storage – none needed. If the device has flash it can be used as a local cache for offline mode. |
| **Server requirements** | Minimum processor speed 1GHz (3GHz or higher is recommended).<br>Server Operating System: Windows XP Pro SP3, Windows Server 2003, Windows Server 2008 and 2008 R2 |
| **Network requirements** | Server Lan Speed = Minimum 100Mbps (1Gbps and up is recommended)<br>Device Lan Speed = Minimum 10Mbps (100 Mbps full duplex is recommended) |
| **Operating systems supported** | Microsoft Windows XP<br>Microsoft Windows Vista<br>Microsoft Windows 7 |
| **Databases supported** | Microsoft SQL 2005 and 2008 (Server and Express Editions) |
| **Built-in high availability** | - Database availability using SQL clustering.<br>- Built-in server high availability through WSM Server Grouping feature.<br>- Server to Server Fail-over Capability. |
| **Fast and easy installation** | - Installing Dell Wyse WSM is simply a matter of running a single, graphical installer.<br>- The installer checks for all the prerequisite components before installation. |

| | |
|---|---|
| **Web-based admin console** | - Allows IT administrators to access Dell Wyse WSM from any browser.<br>- Control the entire installation from a central location.<br>- Dramatically simplifies administration, saving IT time and user downtime.<br>- Wizards to guide the user through specific tasks. |
| **Operation system and application imaging tools** | - Imaging tool simplifies the process of creating an OS image for the specific hardware configuration and an application image for all hardware configurations.<br>- All OS and application images are ready for deployment once created, no further modifications needed. |
| **Application subscription management** | Use flexible application deployment methods:<br>- Auto-subscribed applications are ready for use when user logs in for the first time.<br>- Manual subscriptions allow users the flexibility to use applications only when needed.<br>- Mandatory subscriptions that cannot be unsubscribed by users. |
| **Protected System Drive** | - Allows administrators to protect the system drive from end user initiated updates.<br>- Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device. |

# Software specifications Dell Wyse WSM (continued)

| | |
|---|---|
| **Device hardware streaming** | - Dell Wyse WSM provides an on-demand operating system to Dell Wyse cloud PCs or diskless PCs on the network.<br>- Innovative technology makes each Dell Wyse cloud PC or diskless PC think there is a virtual hard disk attached to the device.<br>- Only those bits needed for the normal device operation are sent in order to reduce network traffic.<br>- Operating-system images can be shared across multiple devices, making management easier. |
| **Flexible boot options** | - Each device can boot from four operating system image assignments.<br>- Administrators can assign or let users choose which operating system they want to boot.<br>- First disk mode for the default OS image to boot from every time device starts up.<br>- First available mode to boot from the first responding server in order to balance loads. |
| **Application license management and metering** | - Dell Wyse WSM provides the infrastructure to collect information about the application license-usage across the enterprise. This information allows IT organizations to save money associated with application licenses.<br>- Licenses can be stored for all the applications deployed. It also enforces license compliance.<br>- Types of licenses that can be controlled include:<br>1) Time-based licenses (valid for X days).<br>2) Number of concurrent users. |

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| **Modes of operation** | Dell Wyse WSM allows administrators to choose modes of operation for the OS:<br>- Private Mode - for administration of operating system images.<br>- Shared Mode - has two additional modes of normal operation:<br>1) Volatile - returns desktop to pristine state after a device reboot.<br>2) Persistent - remembers any user settings after a device reboot. |
| **Remote servers for scalability** | - IT administrators can deploy multiple remote servers to improve scalability of the overall solution.<br>- Central management of remote servers allows easy deployment of the solution across different geographic locations. |
| **Comprehensive reporting** | - Easy ad-hoc reporting based on flexible parameters.<br>- Reports are delivered through HTML, giving you the flexibility to output in any form.<br>- License-metering reports can be used to make proactive purchasing decisions.<br>- License-audit reports can be used for compliance purposes. |
| **Desktop** | Dell Wyse WSM works with Dell Wyse D, Z, and X class cloud PCs as well as with existing thin clients, diskless PCs and virtual-desktop systems. |

# Software specifications Dell Wyse enhanced SUSE Linux

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| **Firmware features** | Dell Wyse enhanced SUSE Linux based on SLED 11 SP2<br>Automatic Central Configuration (text-based INI's)<br>Automatic Upgrades (FTP, HTTP, HTTPS)<br>Secure, read-only file system with lockdown abilities<br>Dell Wyse RDP client (RDP7 Compatible)<br>Citrix Online Plugin 11.2 client (ICA 12.1) w/ HDX Mediastream, Plug-n-Play, Realtime, etc.<br>VMware View Client 1.6 support<br>Ericom PowerTerm InterConnect Terminal Emulation<br>Ericom PowerTerm WebConnect<br>Cisco, Juniper, Nortel, IPSEC VPN Support (Add-ons)<br>Local/Remote Printing support (CUPS, LPR/LPD, Samba, ThinPrint,etc)<br>Web-based applications (Firefox, Flash, JAVA,etc)<br>XDMCP / SSH |
| **Server OS Infrastructure support** | Citrix XenApp / Citrix Presentation Server<br>Citrix XenDesktop<br>VMware View<br>Microsoft Windows Terminal Server 2003 & 2008 |
| **Keyboard language support** | 100+ Keyboard Layouts supported locally (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish) |
| **Management** | Automatic, "hands-off" configuration and upgrading of thin clients without the need for device management software. Optionally, administrators can choose to integrate with Dell Wyse Device Manager (WDM) for more hands-on control:<br>- Complete image upgrade<br>- Wake terminal remotely (Wake-on LAN)<br>- Remote screen shadowing of entire desktop (VNC)<br>- Asset management and reporting |

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| **Wireless support** | WPA Personal, WPA2 Personal, WPA Enterprise<br>WPA Enterprise Authentication support<br>PEAP/TLS: PAP/MSCHAP/MSCHAPV2 support |
| **Dell Wyse TCX Suite** | Advanced support for innovative Dell Wyse TCX Suite virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring:<br>- Multimedia acceleration - the power to run rich multimedia files formats utilizing Dell Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server.<br>- Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>- USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control.<br>- Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>- Flash acceleration - helps users of thin clients to experience improved Flash performance. |
| **Dell Wyse Virtual Desktop Accelerator** | Dell Wyse VDA works with instead of replacing existing RDP and ICA protocols, and is designed to offer significant acceleration over certain capacity-constrained WAN links. |

# Software specifications Microsoft Windows Embedded Standard 2009

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|---|---|
| **Firmware features** | Microsoft Windows Embedded Standard 2009<br>Microsoft Internet Explorer 8.0 resident: HTML, JavaScript, XML,<br>Active X Sun JRE, Media Player, Citrix Web Interface<br>RDP 7.0 resident<br>Citrix Online Plugin 12.x resident<br>VMware View 4.6 client resident<br>Ericom PowerTerm InterConnect Terminal Emulation<br>Ericom PowerTerm WebConnect client<br>Windows Media Player 11, .NET 3.5 |
| **Server OS Infrastructure Support** | Citrix XenApp / Citrix Presentation Server / Citrix XenDesktop<br>VMware View<br>Ericom PowerTerm WebConnect<br>Microsoft Windows Terminal Server 2003 & 2008 |
| **Application Framework** | .Net 3.5 |
| **Security** | File Based Write Filter (FBWF)<br>Microsoft Baseline Security Analyzer (MBSA) |
| **Set-up and Configuration** | Boot from local flash<br>Microsoft Windows Embedded Standard 7 user interface languages:<br>U.S, Optional add-ons |
| **Keyboard language support** | U.S. English (standard), French, German, Spanish, U.K. English,<br>40 other languages included |
| **Protocol Support** | TCP/IP, DNS, DHCP, PXE |
| **Management** | Remote management, configuration, and upgrades through Dell Wyse Device Manager<br>Complete image upgrade<br>Wake terminal remotely (Wake-on LAN)<br>Terminal configuration (IP information, name, etc.)<br>Remote screen shadowing of entire desktop (Dell Wyse Remote Shadow)<br>Reporting, Asset management / SMS / Altiris<br>Native Windows Embedded Device Manager support for management via<br>System Center Configuration Manager |

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| **Wireless support** | 802.11 a/b/g/n support with dual band external wireless adapter or single band internal wireless adapter option<br>WPA-2, WEP, WPA wireless authentication<br>PEAP-GTC wireless authentication protocol with optional<br>Juniper Odyssey Client<br>Supports PC-Card wireless adapters* from: Cisco, D-Link, Netgear,<br>US Robotics, Trendware |
| **Plug-ins** | Adobe Flash Player / Adobe Shockwave<br>Microsoft Silverlight |
| **Dell Wyse TCX Suite** | Advanced support for innovative Dell Wyse TCX Suite of virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring:<br>- Multimedia acceleration - the power to run rich multimedia files formats utilizing Dell Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server.<br>- Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>- USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control.<br>- Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>- Flash acceleration - helps users of thin clients to experience improved Flash performance. |
| **Dell Wyse Virtual Desktop Accelerator** | Dell Wyse VDA works with instead of replacing existing RDP and ICA protocols, and is designed to offer significant acceleration over certain capacity-constrained WAN links. |
| | *requires hardware support |

# Software specifications Microsoft Windows Embedded Standard 7

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|---|---|
| **Firmware features** | Microsoft Windows Embedded Standard 7<br>Microsoft Internet Explorer 8.0 resident: HTML, JavaScript, XML, Citrix Web Interface<br>Microsoft RDP 6.1 client (Protocol 7.1 Supported) with RemoteFX technology<br>Citrix Online Plugin 12 resident (ICA 12) with HDX<br>Citrix XenDesktop<br>VMware View 4.6 client resident<br>Ericom PowerTerm InterConnect Terminal Emulation<br>Windows Media Player 12 |
| **Server OS Infrastructure support** | Citrix XenApp / Citrix Presentation Server<br>Citrix XenDesktop<br>VMware View<br>Microsoft Windows Terminal Server 2003 & 2008 R2<br>MSFT VDI |
| **Security** | File Based Write Filter (FBWF) |
| **Set-up and configuration** | Boot from local flash<br>Microsoft Windows Embedded Standard 7 user interface languages:<br>U.S, Optional add-ons |
| **Keyboard language support** | U.S. English (standard), French, German, Spanish, U.K. English,<br>40 other languages included |
| **Protocol support** | TCP/IP, DNS, DHCP, PXE |
| **Management** | Auto-configuration with Dell Wyse Configuration Manager<br>Remote management, configuration, and upgrades through<br>Dell Wyse Device Manager<br>Complete image upgrade<br>Terminal configuration (IP information, name, etc.)<br>Reporting, Asset management<br>Simple USB imaging solution with Dell Wyse USB Firmware Tool<br>Native Windows Embedded Device Manager support for management via<br>System Center Configuration Manager |

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| **Wireless support** | 802.11 a/b/g/n support with dual band external wireless adapter or single band internal wireless adapter option<br>WPA-2, WEP, WPA wireless authentication<br>PEAP-GTC wireless authentication protocol with optional<br>Juniper Odyssey Client<br>Supports PC-Card wireless adapters* from: Cisco, D-Link, Netgear,<br>US Robotics, Trendware |
| **Plug-ins** | Adobe Flash Player<br>Microsoft Silverlight |
| **Dell Wyse TCX Suite** | Advanced support for innovative Dell Wyse TCX Suite virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring:<br>- Multimedia acceleration - the power to run rich multimedia files formats utilizing Dell Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server.<br>- Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>- USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control.<br>- Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>- Flash acceleration - helps users of thin clients to experience improved Flash performance. |
| **Dell Wyse Virtual Desktop Accelerator** | Dell Wyse VDA works with instead of replacing existing RDP and ICA protocols, and is designed to offer significant acceleration over certain capacity-constrained WAN links. |
| | *requires hardware support |

# Contact Dell Wyse.


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### Dell Wyse Sales

1-800-438-9973

### International customers please dial:

00 1 408 473 1200


### Dell Wyse Support Portal

Dell Wyse Support Portal provides a fast and accurate way to communicate interactively with Dell Wyse Customer Support, and helps us respond to your requests more quickly.

http://support.wyse.com/selfservice.html

Dell Wyse

Dell Wyse offers cloud client computing sales, service and support expertise around the globe. Click for contact details.

### About Dell

Dell Inc. (NASDAQ: DELL) listens to customers and delivers innovative technology and services that give them the power to do more. For more information, visit www.dell.com


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Approved final 050213.

# Dell Wyse X class

Thin. Compact. Secure.

## Secure mobile computing without compromise

With the compact Dell Wyse X class c family mobile cloud clients, you can take the benefits of Dell cloud client computing with you wherever you go. Deploying secure, accessible and manageable laptops has never been easier – as dependent on the model – user data is either stored on central servers or locally on a HDD for offline working.

Powered by Intel Atom Z520 1.33 GHz processors these compact, high performance mobile cloud clients allow more users than ever before to gain secure access to corporate networks when and wherever they need to.

They're optimized for Citrix XenApp, Citrix XenDesktop, Microsoft Terminal Server and VMware View environments - and are available across a range of operating systems: Dell Wyse enhanced SUSE Linux Enterprise, Microsoft Windows XP Embedded, Windows Embedded Standard 2009 & 7 and Dell Wyse WSM.

## Compact high performance mobile cloud clients

Dell Wyse X class c family mobile cloud clients are packed with features that would put some fat-laptops to shame. Busy mobile workers and traditional 'road-warriors' alike will appreciate their compact slim profile, light weight, crisp LED-backlit display and long-lasting 8 hour battery.

## At a glance

**Performance**
New generation Intel Atom Z520 1.33GHz processor delivering high performance with low power requirements (15 watts).

**Ultra-mobile**
Slim, compact design weighing just 3.2lb that's ideal for busy mobile workers and classic 'road-warriors' alike.

**Rich user connectivity**
Built-in webcam, integrated wireless b/g/n, Bluetooth 2.1 and support for 3G cards provide everything needed for rich user interactivity, flexible connectivity and secure mobile access.

**Green**
Draws under 15 watts of power. Small form-factor reduces the impact of manufacturing and end-of-life disposal on the environment.

**Virtualization**
Users benefit from built-in support for the Dell Wyse TCX Suite of user experience optimizations created to deliver the best user experience over virtualized desktop environments.

**Management**
Features Dell Wyse Device Manager (workgroup edition).

**Dell Wyse enhanced SUSE Linux**
Secure, flexible and market-leading Linux combined with Dell Wyse innovations in management and user experience.

**Microsoft Windows Embedded Standard 2009 and 7**
Take advantage of the power of Windows Embedded Standard 2009 and the rich user experience of Windows Embedded Standard 7.

## Dell Wyse X class c family mobile cloud clients

# Specification

## Dell Wyse X90cw and X90c7 mobile thin clients and X00c mobile cloud PC

| | |
|---|---|
| **Processors** | Intel Atom Z520 1.33GHz |
| **Memory** | X90cw: Windows Embedded Standard 2009: 2GB Flash / 1GB RAM and up to 4GB Flash / 2GB RAM<br>X90c7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM |
| **I/O peripheral support** | One VGA port 15-pin D-sub for external monitor<br>Three USB 2.0 ports<br>Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage<br>One Mic In<br>One Line Out<br>Built-in 1.3 mega pixel camera and microphone<br>3G capable |
| **Keyboard** | US, US international, UK, French, German |
| **Pointing Device** | Touchpad |
| **Networking** | 10/100Base-T Fast Ethernet (RJ-45)<br>Integrated wireless 802.11 b/g/n |
| **Factory Options** | Bluetooth for connection to selected mobile phones |
| **Display** | 11.6" WXGA 1366 x 768 LED backlight |
| **Speakers** | 2 internal stereo speakers |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Physical characteristics** | Width: 11.42 inches (290mm)<br>Depth: 8.23 inches (209mm)<br>Height: 1.39-1.25 inches (26.4~31.7mm) |
| **Weight** | 3.2 lbs. (1.45kg) with battery |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Battery** | 6-cell Li-Ion battery (5200mAh)<br>Up to 8 hours autonomy |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz.<br>Energy Star V5.0 compliant power supply<br>Average power usage under 15 watts<br>19V/65W AC adapter |
| **Temperature Range** | 50° to 104° F (10° to 40° C) |
| **Humidity** | 20% to 80% condensing<br>10% to 95% non-condensing |
| **Safety Certifications** | Safety: UL/IEC 60950-1, TUV<br>EMC: CE (EN 55022, EN 55024), FCC 15B)<br>Wireless: FCC ( Part 15C), CE (EN 300 328, EN 301 489)<br>Directive 1999/5/EC<br>Environment: RoHS, WEEE |
| **Warranty** | One-year limited warranty, 6 months battery warranty<br>Visit our web site for Dell WyseChoice extensions and upgrades |

**Learn more:** contact Dell Wyse at sales@wyse.com or call 1-800-438-9973


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**Dell Wyse Sales**
1-800-438-9973

# Dell Wyse X class

High performance mobile thin client.

## Anywhere access to virtual desktops

The Dell Wyse X class m family is the next-generation 14" mobile thin client, bringing high performance, HD multimedia capabilities, and leading security to the mobile worker.

The Dell Wyse X class m family delivers a combination of performance, connectivity, and ease of use never before seen in a thin client. The device is available with a dual core AMD G-T56N 1.65 GHz processor with AMD Radeon™ HD 6320 graphics.

The Dell Wyse X class m family also includes SuperSpeed USB 3.0 connectivity, enabling the newest peripherals and speeds up to 10 times faster than USB 2.0. The Dell Wyse X class m family offers enterprises an advanced, highly reliable, and secure device that seamlessly connects to existing IT infrastructures and delivers access to the most advanced Web browser and media player capabilities in a virtual client.

These devices are optimized and certified for Citrix XenApp, Citrix XenDesktop, Microsoft Terminal Server and Hyper-V, and VMware View environments.

## Ease of use

**It's the thin client that does it all, without making you do it all.**

The new next-generation Dell Wyse X class m family mobile thin client powerhouse. It features Dell Wyse enhanced SUSE Linux, Windows Embedded Standard 2009 and Windows Embedded Standard 7, a crisp 14" LED backlit display and a Dual Core high performance and graphics-combined CPU – delivering excellent HD multimedia capabilities, as well as advanced SuperSpeed USB 3.0 connectivity.

## At a glance

**Performance**
New generation Intel Atom Z520 1.33GHz processor delivering high performance with low power requirements (15 watts).

**Ultra-mobile**
Slim, compact design weighing just 3.2lb that's ideal for busy mobile workers and classic 'road-warriors' alike.

**Rich user connectivity**
Built-in webcam, integrated wireless b/g/n, Bluetooth 2.1 and support for 3G cards provide everything needed for rich user interactivity, flexible connectivity and secure mobile access.

**Green**
Draws under 15 watts of power. Small form-factor reduces the impact of manufacturing and end-of-life disposal on the environment.

**Virtualization**
Users benefit from built-in support for the Dell Wyse TCX Suite of user experience optimizations created to deliver the best user experience over virtualized desktop environments.

**Management**
Features Dell Wyse Device Manager (workgroup edition).

**Dell Wyse Enhanced SUSE Linux**
Secure, flexible and market-leading Linux combined with Dell Wyse innovations in management and user experience.

**Microsoft Windows Embedded Standard 2009 and 7**
Take advantage of the power of Windows Embedded Standard 2009 and the rich user experience of Windows Embedded Standard 7.

AMD Fusion FAMILY OF APUs EMBEDDED TECHNOLOGY

SUPERSPEED USB

## Dell Wyse X class m family mobile thin clients

# Specification

Dell Wyse X50m, X90mw, X90m7 mobile thin clients and X00m mobile cloud PC

| | |
|---|---|
| **Processors** | Dual core AMD G-T56N 1.65 GHz processor with AMD Radeon™ HD 6320 graphics |
| **Memory** | X50m: Dell Wyse enhanced SUSE Linux: 2GB Flash / 2GB RAM DDR3 1333MHz<br>X90mw: Windows Embedded Standard 2009: 2GB Flash / 2GB RAM DDR3 1333MHz<br>X90m7: Windows Embedded Standard 7: 4GB Flash / 2GB RAM DDR3 1333MHz<br>X00m for WSM: 128GB SSD / 2GB RAM DDR3 1333MHz |
| **I/O peripheral support** | One VGA port<br>One DisplayPort<br>One USB 2.0 port and two USB 3.0 ports<br>Media card reader slot for additional storage<br>One Mic In / One Line Out<br>Built-in 1.3 mega pixel camera and microphone<br>ExpressCard slot (factory option)<br>3G/4G capable (PCIe slot available)<br>Smart card reader (Factory installed configuration option) |
| **Networking** | 10/100/1000 Mbps Gigabit Ethernet<br>Integrated wireless 802.11 a/b/g/n Dual Band (2.4 Ghz and 5Ghz)<br>X90m7: FIPS 140-2 wireless – TAA compliant |
| **Display** | 14" WXGA 1366 x 768 LED backlight |
| **Audio** | Output: 1/8-inch mini jack, full 16 bit stereo, digital audio out<br>Input: 1/8-inch mini jack, 8 bit microphone |
| **Speakers** | Two internal stereo speakers |
| **Physical characteristics** | Width: 13.5 inches (341.6mm)<br>Depth: 9.42 inches (239.2mm)<br>Height: 1.14 inches (28.9-35.5mm) |
| **Weight** | 4.0lbs. (1.831kg) |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Keyboard and mouse** | Keyboard / touchpad |
| **Keyboard layouts supplied** | US, US international, UK, French, German |
| **Battery** | 6-cell Li-Ion battery (5200mAh) |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz.<br>Energy Star V5.0 compliant power supply<br>19V/65W AC adapter |
| **Temperature Range** | 50° to 104° F (10° to 40° C) |
| **Humidity** | 20% to 80% condensing<br>10% to 95% non-condensing |
| **Safety Certifications** | Safety: UL/IEC 60950-1, TUV<br>EMC: CE (EN 55022, EN 55024), FCC 15B)<br>Wireless: FCC ( Part 15C), CE (EN 300 328, EN 301 489)<br>Directive 1999/5/EC<br>Environment: RoHS, WEEE |
| **Warranty** | One-year limited warranty, 6 months battery warranty<br>Visit our web site for Dell WyseChoice extensions and upgrades |

**Learn more:** contact Dell Wyse at sales@wyse.com or call 1-800-438-9973


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